EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	20	5 and @pd<"20030930"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 20:33
L5	61	bandwidth and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 20:33
L4	277	2 and back$up	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 20:32
L2	4292	detect$4 near8 change near8 location	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 20:32
L3	2	1 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 20:31
S21	799	detect$4 near8 change near8 file	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 20:30
L1	2108	(711/161,162).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 20:30
S87	16	S79 and S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 19:02

S86	5673	(707/200,203,204).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:01
S84	10	S83 and @pd<"20030930"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 19:00
S83	22	S80 and S82	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:57
S82	247856	detec$3 near8 change	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:57
S81	0	S80 and S79	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:57
S80	130	sen$3 near8 "last update"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:57
S79	2887	detec$3 near8 change near8 location	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:57
S63	47	S60 and @pd<"20030930"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:57

EAST Search History

S78	13	S72 and S74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:55
S77	0	S70 and S74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:53
S76	1	S70 and S72	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:53
S75	0	S70 and S72 and S74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:53
S74	3025	S73.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:53
S73	33395	content near3 sen$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:52
S72	6342	S71.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:52
S71	70291	location near8 change	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:52

EAST Search History

S70	332	S69.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:51
S69	2392	"backup storage"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:51
S68	15	S66 and @pd<"20030930"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:46
S66	28	S65 and S59	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:46
S65	1241	back$up adj1 time	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:46
S64	15	S61 and S59	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:45
S62	0	S60 and S61	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:42
S61	82	baseline with back$up	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:42

EAST Search History

S60	66	skip$3 with S59	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:42
S59	93745	intermediate near8 (value or content or update or change)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 18:41
S58	2	("6119208").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 15:05
S57	2	("5276860").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 15:05
S56	2	("5835953").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 14:39

Google Scholar BETA

backup and location and content   [Search]

The **"AND"** operator is unnecessary -- we include all search terms by default. [details]

Scholar All articles Recent articles Results **1 - 10** of about **36,100** for **backup** and **location** and **content**. ((

All Results

R Shomler

W Micka

R Fortier

B Zhao

S Androutselli...

Backup system that takes a snapshot of the locations in a mass storage device that has been ... - group of 3 »
R Ohran - US Patent 5,835,953, 1998 - Google Patents
... Ohran [54] **BACKUP** SYSTEM THAT TAKES A SNAPSHOT OF THE **LOCATIONS** IN A MASS STORAGE
DEVICE THAT HAS BEEN IDENTIFIED FOR UPDATING PRIOR TO UPDATING ...
Cited by 60 - Related Articles - Web Search

Digital data processor with improved backup storage - group of 2 »
RW Fortier, RM Mastors, TM Taylor, JJ Wallace - US Patent 5,276,860, 1994 - Google Patents
... scans the filesystem, ie, the directories ofsystem disks 18, for candidate files
to **back up**. ... line **backup** volume ^ the recO very processor 12 re ... The **location** of ...
Cited by 76 - Related Articles - Web Search

Tapestry: An Infrastructure for Fault-tolerant Wide-area Location and Routing - group of 55 »
BY Zhao, J Kubiatowicz, AD Joseph - Computer, 2001 - bigpc.net.pku.edu.cn
... soft state to maintain cached **content** for graceful ... from faults affecting routing
and **location** functionality. ... the neighbor map maintains two **backup** neighbors in ...
Cited by 1247 - Related Articles - View as HTML - Web Search - Library Search

Beyond backup toward storage management - group of 9 »
M Kaczmarski, T Jiang, DA Pease - IBM Systems Journal, 2003 - dx.doi.org
... so that a source server can **back up** its primary ... process it once was, when simple
backup tools could ... The notion of namespace **location** independence and storage ...
Cited by 13 - Related Articles - Web Search - BL Direct

MVS device backup system for a data processor using a data storage subsystem snapshot copy ... - group of 3 »
MW White, PJ Tomsula - US Patent 6,119,208, 2000 - Google Patents
... searches the DSCB entries of the Volume Table of **Content** (VTOC) available ... Thus, the
device **location** information obtained by the MVS device **backup** system BS ...
Cited by 8 - Related Articles - Web Search

A survey of peer-to-peer content distribution technologies - group of 16 »
S Androutsellis-Theotokis, D Spinellis - ACM Computing Surveys (CSUR), 2004 - portal.acm.org
... systems and infrastructure technologies in terms of their distributed object **location**
and routing mechanisms, their approach to **content** replication, caching ...
Cited by 103 - Related Articles - Web Search

Developing personal technology for the field - group of 3 »
J Pascoe, D Morse, N Ryan - Personal Technologies, 1998 - Springer

... The desktop PC support was limited to a simple **backup** utility that allowed stick-e notes to be ... The notion of context (eg, **location**) and **content** (eg, orchid ...
Cited by 46 - Related Articles - Web Search - BL Direct

... preventing access to a locked memory block by recording a lock in a content addressable memory with ... - group of 3 »
RL Stamm, ND Wade - US Patent 5,404,482, 1995 - Google Patents
... Preferably, outstanding cache fills are recorded in the same **content** addressable memory as memory locks, and a memory lock or an ... **BACK-UP** CACHE (WRITE-BACK) ...
Cited by 56 - Related Articles - Web Search

Shadow memory system for storing variable backup blocks in consecutive time periods - group of 2 »
JE Davis - US Patent 4,959,774, 1990 - Google Patents
... 24 then writes a 0 into the cur -rently addressed **location** withinusage monitormemory 40, thus clearing that **location** and indicating that the **backup** image data ...
Cited by 74 - Related Articles - Web Search

[BOOK] A scalable content-addressable network - group of 171 »
S Ratnasamy, P Francis, M Handley, R Karp, S ... - 2001 - ACM Press New York, NY, USA
... Gnutella goes a step further and de-centralizes the file **location** process as well. ... flooding has to be curtailed at some point, may fail to find **content** that is ...
Cited by 3029 - Related Articles - Web Search - Library Search - BL Direct

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IEEE CNF	IEEE Conference Proceeding
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IEEE STD	IEEE Standard

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☐ 1. **Backup reprovisioning to remedy the effect of multiple link failures in WE networks**
Jing Zhang; Keyao Zhu; Mukherjee, B.;
Selected Areas in Communications, IEEE Journal on
Volume 24, Issue 8, Part Supplement, Aug 2006 Page(s):57 - 67
Digital Object Identifier 10.1109/JSAC.2006.1677254

AbstractPlus | Full Text: PDF(559 KB)   IEEE JNL
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☐ 2. **PROTECTORATION: a fast and efficient multiple-failure recovery techniqu packet ring using dark fiber**
Maier, M.; Herzog, M.; Scheutzow, M.; Reisslein, M.;
Lightwave Technology, Journal of
Volume 23, Issue 10, Oct. 2005 Page(s):2816 - 2838
Digital Object Identifier 10.1109/JLT.2005.856165

AbstractPlus | Full Text: PDF(664 KB)   IEEE JNL
Rights and Permissions

☐ 3. **A comprehensive study on backup reprovisioning to remedy the effect of failures in WDM mesh networks**
Jing Zhang; Keyao Zhu; Mukherjee, B.;
Communications, 2004 IEEE International Conference on
Volume 3, 20-24 June 2004 Page(s):1654 - 1658 Vol.3
Digital Object Identifier 10.1109/ICC.2004.1312790

AbstractPlus | Full Text: PDF(281 KB)   IEEE CNF
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1   ARIES: a transaction recovery method supporting fine-granularity locking and partial rollbacks using write-ahead logging
C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz
March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(5.23 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXODUS and Gamma d ...

Keywords: buffer management, latching, locking, space management, write-ahead logging

2   Language features for flexible handling of exceptions in information systems
Alexander Borgida
December 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(3.12 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

An exception-handling facility suitable for languages used to implement database-intensive information systems is presented. Such a mechanism facilitates the development and maintenance of more flexible software systems by supporting the abstraction of details concerning special or abnormal occurrences. The type constraints imposed by the schema as well as various semantic integrity assertions are considered to be normalcy conditions, and the key contribution of this work is to allow except ...

3   The Coda Distributed File System
Peter J. Braam
June 1998 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.
Full text available: 🖥 html(25.23 KB)   Additional Information: full citation, abstract, citings, index terms

Carnegie Mellon University has developed an exciting file system. Mr. Braam, one of the developers, tells us all about it

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1 Streaming 2: Distributing media transformation over multiple media gateways   ☐
Wei Tsang Ooi, Robbert van Renesse
October 2001 **Proceedings of the ninth ACM international conference on Multimedia MULTIMEDIA '01**
Publisher: ACM Press

Full text available: 📄 pdf(227.66 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Media gateways have been proposed as a solution to the network heterogeneity problem in media multicasting. Services on the gateways transform media streams as they flow through the gateways. In this paper, we present our work on composable services in media gateways. A user can request a computation to be performed on a set of media streams. The system then distributes the computation over multiple gateways for execution. We present an algorithm for decomposing the computation into sub-computat ...

2 Full papers (written in Portuguese): Network bandwidth requirements for optimized   ☐
streaming media transmission to interactive users
Marcelo Maia, Marcus Rocha, Ítalo Cunha, Jussara Almeida, Sérgio Campos
November 2006 **Proceedings of the 12th Brazilian symposium on Multimedia and the web WebMedia '06**
Publisher: ACM Press
Full text available: 📄 pdf(499.04 KB)   Additional Information: full citation, abstract, references

> In order to minimize bandwidth requirements and improve on demand streaming media distribution scalability, several distribution protocols based on stream sharing by multiple users have been proposed. Despite the great scalability of these protocols proven for workloads where users access the entire media with no interruptions, several studies show that protocol scalability is severely degraded under interactive scenarios, where users access media segments. These scenarios are commonly observed ...

3 Posters: voting: Computing the communication costs of item allocation   ☐
Timothy W. Rauenbusch, Stuart M. Shieber, Barbara J. Grosz
July 2005 **Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems AAMAS '05**
Publisher: ACM Press
Full text available: 📄 pdf(283.52 KB)   Additional Information: full citation, abstract, references, index terms

> Multiagent systems require techniques for effectively allocating resources or tasks among

agents in a group. Auctions are one method for structuring communication of agents' private values for the resource or task to a central decision maker. Different auction methods vary in their communication requirements. This work makes three contributions to the understanding the types of group decision making for which auctions are appropriate methods. First, it shows that entropy is the best measure of c ...

Keywords: auctions, communication, dialogue

4 <u>Provisioning: Efficient and robust streaming provisioning in VPNs</u>

Z. Morley Mao, David Johnson, Oliver Spatscheck, Jacobus E. van der Merwe, Jia Wang
May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**
Publisher: ACM Press

Full text available: pdf(1.06 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Today, most large companies maintain virtual private networks (VPNs) to connect their remote locations into a single secure network. VPNs can be quite large covering more than 1000 locations and in most cases use standard Internet protocols and services. Such VPNs are implemented using a diverse set of technologies such as Frame Relay, MPLS, or IPSEC to achieve the goal of privacy and performance isolation from the public Internet.Using VPNs to distribute live content has recently received treme ...

Keywords: VPNs, streaming server placement

5 <u>Scalability of multicast delivery for non-sequential streaming access</u>

Shudong Jin, Azer Bestavros
June 2002 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2002 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '02**, Volume 30 Issue 1
Publisher: ACM Press

Full text available: pdf(268.80 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

To serve asynchronous requests using multicast, two categories of techniques---stream merging and periodic broadcasting---have been proposed. For sequential streaming access, where requests are uninterrupted from the beginning to the end of an object, these techniques are highly scalable: the required server bandwidth for stream merging grows *logarithmically* as request arrival rate, and the required server bandwidth for periodic broadcasting varies *logarithmically* as the inverse of ...

6 <u>Agents, interactions, mobility and systems: Compiler optimizations for Java aglets in distributed data intensive applications</u>

Abhishek Singh, Santosh Pande
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**
Publisher: ACM Press

Full text available: pdf(486.19 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Code migration in light of distributed data intensive computing poses interesting compilation issues. In this work, we first define a small extension to the aglet model to allow data distribution. In our aglet program, data is distributed over the network using annotations (this is similar to High Performance Fortran (HPF) where the programmer specifies data distributions through annotations). We analyze the program using the annotations and use the 'owner computes' rule to determine where a giv ...

7 Optimal smoothing schedules for real-time streams (extended abstract)

Yishay Mansour, Boaz Patt-Shamir, Ofer Lapid

July 2000 **Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing PODC '00**

Publisher: ACM Press

Full text available: pdf(857.38 KB)   Additional Information: full citation, abstract, references, citings, index terms

We consider the problem of smoothing real-time streams (such as video streams), where the goal is to reproduce a variable-bandwidth stream remotely, while minimizing bandwidth cost, space overhead, and playback delay. We focus on lossy schedules, where some bytes may be dropped due to limited bandwidth or space. We present the following results. First, we determine the optimal tradeoff between buffer space, queuing delay, and link bandwidth for lossy smooth ...

8 Characterizing the behavior of sparse algorithms on caches

O. Temam, W. Jalby

December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing Supercomputing '92**

Publisher: IEEE Computer Society Press

Full text available: pdf(936.88 KB)   Additional Information: full citation, references, citings, index terms

9 Poster session: CobWeb: a proactive analysis-driven approach to content distribution

Yee Jiun Song, Venugopalan Ramasubramanian, Emin Gün Sirer

October 2005 **Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**

Publisher: ACM Press

Full text available: pdf(329.35 KB)   Additional Information: full citation, abstract, references

CobWeb is an open-access content distribution network (CDN) that provides low latency lookups, resilience to flash crowds, and optimal utilization of network resources. Unlike traditional Web caches and CDNs, which rely on ad hoc heuristics for replica placement and cache management, CobWeb achieves superior performance through a unique analysis driven approach. CobWeb derives the optimal replica placement strategy by posing the fundamental performance-overhead tradeoff as a resource constraint ...

10 Screen capture: a vector quantisation approach

Jesse S. Jin, Sue R. Wu

June 2004 **Proceedings of the Pan-Sydney area workshop on Visual information processing VIP '05**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(198.41 KB)   Additional Information: full citation, abstract, references, index terms

Over the last couple of decades, more and more presentations are done on computer screen. The need to store or broadcast such presentation efficiently is in high demand across different application areas. This paper proposes a screen capture representation called vector quantisation. This system captures sequence of actions on a computer screen and minimizes its video file size for storage. It also minimizes bandwidth requirement if used for teleconferencing.

Keywords: vector quantisation, video compression

11 Streaming: Slotted stream tapping

Achraf Gazdar, Abdelfettah Belghith

October 2004 **Proceedings of the 2004 ACM workshop on Next-generation residential broadband challenges NRBC '04**
Publisher: ACM Press
Full text available: pdf(142.49 KB)   Additional Information: full citation, abstract, references, index terms

Video on Demand VOD is a multimedia service which allows a remote user to select and then view video at his convenience at any time he wants. Required bandwidth and latency time, defined as a user maximum waiting time, are usually among the most critical issues in VoD systems. Previous works in the field may be classified within two categories of protocols; namely reactive and proactive. Proactive protocols broadcast video regardless of the number of participating viewers. Reactive protocols, ...

Keywords: broadcasting, proactive protocol, reactive protocol, stream tapping, video-on-demand

12 Compressed multisampling for efficient hardware edge antialiasing
Philippe Beaudoin, Pierre Poulin
May 2004 **Proceedings of the 2004 conference on Graphics interface GI '04**
Publisher: Canadian Human-Computer Communications Society
Full text available: pdf(478.49 KB)   Additional Information: full citation, abstract, references

Today's hardware graphics accelerators incorporate techniques to antialias edges and minimize geometry-related sampling artifacts. Two such techniques, brute force supersampling and multisampling, increase the sampling rate by rasterizing the triangles in a larger antialiasing buffer that is then filtered down to the size of the framebuffer. The sampling rate is proportional to the number of subsamples in the antialiasing buffer and, when no compression is used, to the memory it occupies. In tur ...

Keywords: edge antialiasing, graphics hardware, multisampling

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Terms used **intermediate change bandwidth**   Found **3 of 16 searched out of 16.**

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1 Adaptive push-pull: disseminating dynamic web data   ▬

Pavan Deolasee, Amol Katkar, Ankur Panchbudhe, Krithi Ramamritham, Prashant Shenoy
April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**
Publisher: ACM Press
Full text available: 🔲 pdf(152.08 KB)   Additional Information: full citation, references, citings, index terms

Keywords: World Wide Web, data dissemination, dynamic data, pull, push, resiliency, scalability, temporal coherency

2 Full-system timing-first simulation   ▭

Carl J. Mauer, Mark D. Hill, David A. Wood
June 2002 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2002 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '02**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: 🔲 pdf(87.83 KB)   Additional Information: full citation, abstract, references, citings

Computer system designers often evaluate future design alternatives with detailed simulators that strive for *functional fidelity* (to execute relevant workloads) and *performance fidelity* (to rank design alternatives). Trends toward multi-threaded architectures, more complex micro-architectures, and richer workloads, make authoring detailed simulators increasingly difficult. To manage simulator complexity, this paper advocates decoupled simulator organizations that separate functiona ...

3 Ext3cow: a time-shifting file system for regulatory compliance   ▭

Zachary Peterson, Randal Burns
May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: 🔲 pdf(443.01 KB)   Additional Information: full citation, abstract, references, citings, index terms

The ext3cow file system, built on the popular ext3 file system, provides an open-source file versioning and snapshot platform for compliance with the versioning and audtitability requirements of recent electronic record retention legislation. Ext3cow provides a *time-shifting* interface that permits a real-time and continuous view of data in the past. Time-

shifting does not pollute the file system namespace nor require snapshots to be mounted as a separate file system. Further, ext3cow is i ...

Keywords: Versioning file systems, copy-on-write

Results 1 - 3 of 3